

6th Grade Math Quiz

(continued)

13 What is -3×-4 ?

A. -12

B. -7

C. 7

D. 12

14 Convert $\frac{3}{8}$ to a decimal.

A. 0.38

B. 0.375

C. 0.35

D. 0.3

15 A map has a scale of 1 inch = 50 miles. If two cities are 3.5 inches apart on the map, how far apart are they in real life?

A. 150 miles

B. 175 miles

C. 200 miles

D. 350 miles

6th Grade Math Quiz — Answer Key

1. B 3:5

Divide both numbers by their greatest common factor (5): $15/5 = 3$, $25/5 = 5$. The simplified ratio is 3:5.

2. B -3

Starting at -8 on the number line and moving 5 units to the right gives -3.

3. B 19

Substitute 4 for x: $3(4) + 7 = 12 + 7 = 19$.

4. B 48 sq cm

Area of a triangle = $(\text{base} \times \text{height}) / 2 = (12 \times 8) / 2 = 96 / 2 = 48$ square centimeters.

5. B 20

25% means $25/100$ or $1/4$. $80 / 4 = 20$. Alternatively: $0.25 \times 80 = 20$.

6. C 12

Factors of 24: 1,2,3,4,6,8,12,24. Factors of 36: 1,2,3,4,6,9,12,18,36. The largest number in both lists is 12.

7. C 15

Absolute value is the distance from zero on a number line, which is always positive. $|-15| = 15$.

8. C \$28

30% of $\$40 = 0.30 \times 40 = \12 discount. Sale price = $\$40 - \$12 = \$28$.

9. B $8/3$

To divide fractions, multiply by the reciprocal: $2/3 \times 4/1 = 8/3$ (or $2\ 2/3$).

10. B 8

Add all values: $4 + 8 + 6 + 10 + 12 = 40$. Divide by the count: $40 / 5 = 8$.

11. B $x \geq 7$

The symbol \geq means 'greater than or equal to.' $x \geq 7$ includes 7 and all numbers larger than 7.

12. C 60 cubic cm

Volume = length \times width \times height = $5 \times 4 \times 3 = 60$ cubic centimeters.

13. D 12

A negative times a negative equals a positive. $-3 \times -4 = 12$.

14. B 0.375

Divide 3 by 8: $3 / 8 = 0.375$.

15. B 175 miles

3.5 inches \times 50 miles per inch = 175 miles.